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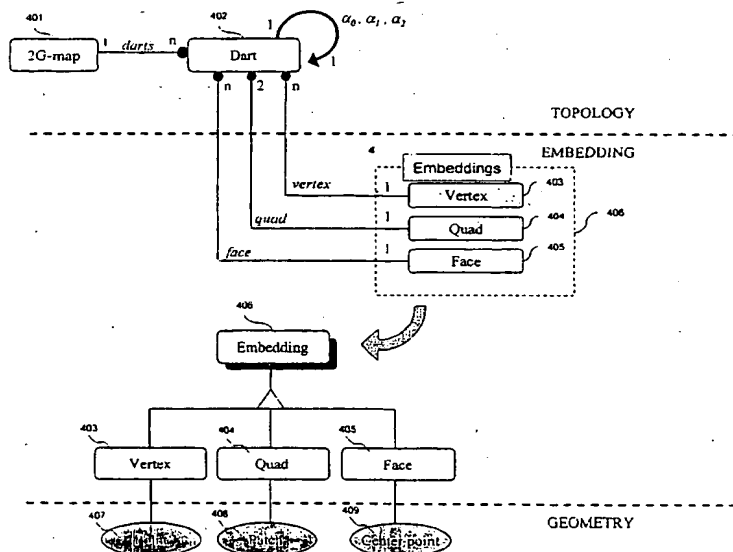
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(54) Title: **IRREGULAR MESH AND EMBEDDED GEOMETRIC DESCRIPTION IN A COMPUTER GRAPHICS SYSTEM**



(57) Abstract: The present invention relates to a method for creating an irregular mesh description and an embedded geometric description in a computer graphics system. The method comprises steps of receiving topological input data representing vertices and faces of the mesh, creating a G-map representation of the topology of said mesh based on said input data, associating coordinates in space with the vertices of said mesh, and creating a smooth geometric description from said mesh and said coordinates. The invention also includes a computer system capable of performing the method, as well as computer program product that, when installed on a computer system, enables such a system to perform the invention.